***COMPLETE IN NOTEBOOK! COPY ALL FIGURES!***

CW29/HW29: Angle-Angle-Side Criteria

**Geometry**

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| Criteria for Success: Did you…   * Annotate each figure * Identify corresponding, congruent angles and sides * Provide reasoning justifying your congruency statement. * Write congruency statements using mathematical symbols * Write at least one sentence providing reasoning that ties together your claim and your evidence. | |
| **1.** Can Δ*STW* and Δ*VWT* be proven congruent with the information given in the diagram? If so, state the postulate or theorem you would use. | 2. Can Δ*STW* and Δ*VWT* be proven congruent with the information given in the diagram? If so, state the postulate or theorem you would use. |
| 3.  **GIVEN**: ≅ , ∠*A* ≅ ∠*D*  *BE*  *BC*  **PROVE**: Δ*ABE* ≅ Δ*DBC* | 4.  **Given**  **Prove** ∆*IDE* ≅∆*FED* |

**Directions:** Determine if the two triangles are congruent. If so write a congruency statement and identify what postulate is needed to prove congruency. You only can prove by **AAS, SSS, SAS, ASA.**

|  |  |
| --- | --- |
| 5. | 6. |
| 7. | 8. |
| 9. | 10. |
| 11. | 12. |

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| --- |
| 13. Given: Markings in the diagram  Prove: ∆*PTS* ≅**∆***QTR* |